|  |  |  |  |
| --- | --- | --- | --- |
| Michael T. Davis  Pre-Calculus | | 1.5 Quadratic Functions Practice Quiz  September 24-25, 2015 | |
| Name: | |



1. Graph the parabola with quadratic equation 



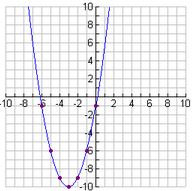
1. Graph the parabola with quadratic equation 



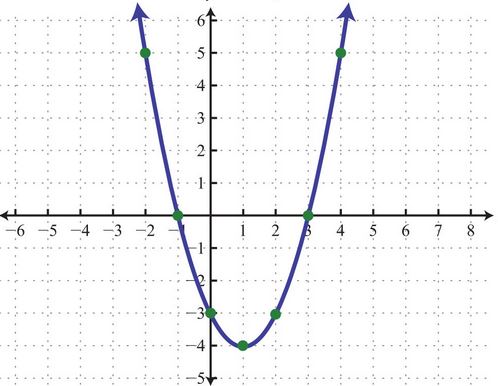
1. Graph the parabola with quadratic equation 
2. Graph the parabola with quadratic equation 



1. Graph the parabola with quadratic equation 
2. Write a vertex-form equation of the parabola that is concave down and has no x-intercepts
3. Write a vertex-form equation of the parabola that is concave up and has 1 x-intercept
4. Write a vertex-form equation of the parabola with vertex  and point 
5. Write a quadratic equation in factored form of the parabola containing the points ,  & 
6. Convert the quadratic equation  to vertex form
7. Convert the quadratic function  to standard form
8. Convert the quadratic function  to factored form
9. Without graphing, determine the number of x-intercepts of the parabola with equation 
10. Without graphing, determine the number of x-intercepts of the parabola with equation 
11. For the parabola shown, write the equation of the quadratic function in two out of the three forms.



1. For the parabola shown, write all three equation forms of the quadratic function.



1. Determine the zeros of the quadratic function 
2. Determine the zeros of the quadratic function 
3. Determine the zeros of the quadratic function 
4. Determine the zeros of the quadratic function 
5. Determine the equation for the axis of symmetry of the parabola defined by the quadratic function 
6. Determine the coordinates of the vertex of the parabola defined by the quadratic function 
7. Determine the coordinates of the vertex of the parabola defined by the quadratic function 
8. Determine the coordinates of the vertex of the parabola defined by the quadratic function 